DXpedition News

United Nations, Geneva - 4U1ITU Steve K4IKM, Mike K9EC, and Yuji JA6FEB will operate the ITU club station June 10-28, as time permits. Mostly SSB and CW, on all bands 80-10 meters, including the new bands. QSL as instructed by the operator.

Eclipse Stations At least two stations will air special-event stations during the total solar eclipse July 11. **4B2SOL** will be on July 8-14, on the usual DX frequencies. QSOs during totality (1841-1901Z) merit a special card, from P.O.Box 147, La Paz BCS 23000, Mexico. Include operator's name, SAE and 2 IRCs or US$1. They'll also be on VHF from grid DL44. Also, The Big Island ARC will air **NH6ES** (Eclipse Station) 00-2400Z July 11, with totality around 1730Z. Try the General class subbands. QSL to BIARC, Box 1938, Hilo HI 96721.

Edited by Chod Harris VP2ML

The DX Bulletin

America's Premier Weekly Amateur Radio Publication

Reserve Your Island

- **JA1SGV/JD1** will be active June 13-15 from Ogasawara (AS-031), including the All Asian CW test. All bands, including the new bands, mostly CW. **JJ1KZI/JD1** will also be active. QSL home calls (Japan DX News.)
- **C6AFQ** will be operated by Jim Cain K1TN July 1-16, including a CW-only entry in the IARU HF Championship July 13-14, from Abaco Island (NA-080). Mostly CW; no partial calls, please. QSL Home address: Box 42, Andover CT 06232.
- **P4ØZ** will be an all-mode IARU HF entry by John Lundy N5MHZ. He'll operate **P4/N4MHZ** outside the test, July 10-23. QSL home call.
- **ZF2JI** will be operated by John Attaway K4IIF in the IARU test. QSL to Chris Williams KG6AR, 1117 S. Del Mar Ave., San Gabriel CA 91776.

Shortly Noted

- **9U5BZP** Larry Partington G4BZP continues to operate until the end of June. Try 14279, 21279, and 28507 kHz 10-1200Z, and after 1500Z. QSL his home call.
- **3D2AG** Antoine will operate from Rotuma (OC-060) the first three weeks of July, using his regular Fiji call. Mostly CW on the 'usual DX frequencies' (3050, 7005, and 25 kHz up on the other bands.) He'll also check into SSB nets. QSL home call.
- **XV2A**? Mark JJ1TBB will be in Ho Chi Minh City June 10-28, and hopes to get permission to use the club station there. Try 20 kHz up on CW, and the usual DX frequencies on SSB. (DXNS.)
- **YAØAS**? DXNS also says that IT9AZS, IT9PHY, IT9GSF, and I2RLX will be active from Kabul July 12-29, all bands CW and SSB. Suggested frequencies are 1 kHz up on CW, and 3780, 7090, 14180, 18142, 21280, 24942, and 28580 kHz. QSL IT9AZS.
- **OK1XC/D2**? OK1XC will be in Angola for the next 5-6 weeks, and will try to get operating permission.
- **TJ1GG**, ex-T5GG, is often on 14214 kHz at 1900Z. QSL I2EOW. (OK-DXpress.)
- **ZD9BV** is often on 28595 kHz at 1500Z, as well as 21335 kHz at 1900Z. QSL to W4FRU.
- **RY-Q** callsigns will commemorate the 500th anniversary of the Zaporozhye Cossacks, July 21-28. Look for **RY1QH, RY2QT, RY3QB, RY4QM, RY5QC, RY6QO, RY7QK, RY8QN** and **RYØQQ**, CW and SSB, all bands. An award is available for working 3 stations (5 for European amateurs). QSL via Valentin Dolinny UBØQZ, Box 4900, Zaporozhye 33076, USSR.
- A **12-meter Beacon** is now active on 24915 kHz, running 5 watts to a ¼-wave ground plane. Call is **IK6BAK**.
- The **DXCC Backlog** has been whittled down to only three months. In early June, the DXCC desk was processing endorsements received the first week in March. Look for them to catch up by the end of the summer. Processing of new DXCC applications is essentially current.
- **SSB net** check-ins: **7159 kHz**: PZ1EL; **14160**: 9K2KW; **14122**: KH6JEB/KH7; **14227**: T3ØDP T3ØJP KHØ/KB6QE JY5RBM 7P8DF; **14250**: JY3ZH OD5ZZ YI1BGD CN8EC 5N8NU; **14256**: TA4A FH8CB 3X1SG TL8FD VP8CFM (South Orkneys) **21335**: STØDX ZD8XX 3DAØBX Z21GZ.
- **RTTY** report: **YS7OB** 14084 0315Z; **YI1BGD** 14088 1000Z; **4S7RM** 14085 1635Z; **T77FT** 14086 2020Z; **7X2FKT** 14088 2220Z; **V85GA** 21076 1230Z; **SVØCR** 14074 0350Z; **7Q7LA** 21088 1250Z; **UL7MU** 21086 1310Z; **Z21GZ** 21088 1650Z; **KG4DD** 14086 2210Z; **9X5LJ** 14070 ARQ 2300Z; **FK8BK** 14068 ARQ 0800Z; **4K2OIL** 14087 1615Z; **VQ9XB** 21087 1400Z; **TU2XP** 21089 1720Z; **9K2DZ** 14077 FEC 0350Z; **6W6JX** 21088 1650Z. **FB8WZ** claims to be on Crozet, and is very active on 14086 kHz at 03 and 10Z, but the FB8 prefix hasn't been used for years. Legit?

Propagation

Forecast and Historical Data

Day	Forecast	27 Days Before			55 Days Before			
June 1991		Date	Flux	A K	Date	Flux	A	K
14	High Normal	05/18	168	05/06 2	04/20	221	03/07	1
15	High Normal	05/19	164	04/07 3	04/21	180	06/07	2
16	High Normal	05/20	148	04/06 0	04/22	166	07/10	2
17	High Normal	05/21	148	08/09 3	04/23	146	06/07	2
18	Low Normal	05/22	147	18/17 3	04/24	135	12/12	3
19	Low Normal	05/23	152	23/23 3	04/25	136	15/19	3
20	Below Normal	05/24	159	21/29 3	04/26	142	10/13	2
21	Disturbed	05/25	173	28/41 3	04/27	143	23/28	3
22	Low Normal	05/26	184	18/23 3	04/28	159	30/36	4
23	Low Normal	05/27	194	18/27 3	04/29	160	49/54	3
24	Low Normal	05/28	210	25/30 4	04/30	160	26/33	3
25	Low Normal	05/29	216	22/27 3	05/01	162	25/25	3
26	High Normal	05/30	231	15/19 3	05/02	157	28/38	4
27	Disturbed	05/31	219	29/45 4	05/03	158	18/19	2

Propagation Watch

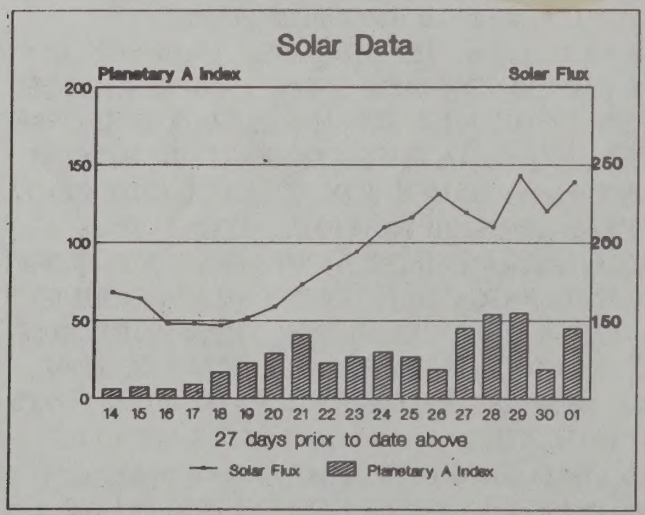
DXers will not soon forget Sunspot Region 6659. This enormous, magnetically complex region has spawned an almost continuous series of major flares, including at least two rated X12+. (Flares are classified C, M, or X, in increasing intensity, followed by a number indicating rank within each class. An M1 flare is 10 times more intense than a C1 flare. However, the sensors saturate at X12; flares more intense than this are ranked X12+.)

The numerous flares have caused frequent short-wave blackouts on the sunlit side of the earth, and major storming in the geomagnetic field. The A index for June 5 was 151! Needless to say, band conditions have been lousy.

Region 6659 rotates off the visible side of the sun this weekend, so conditions may improve (they can't get much worse!). Look for gradual improvement in low-latitude signal strengths, but continued poor conditions in the polar and auroral latitudes.

Even under the worst of conditions, there is some DX available; the D2ACA station was extremely loud on June 5th, as the geomagnetic storm abated.

VHF DXers have enjoyed some great auroral openings, somewhat compensating for the poor HF conditions. The coming of the summer E-skip season will give six-meter DXers some more DX possibilities. Meanwhile, HF DXers await a quieter sun.



Notes From All Over

▪ Dave Porter **W2BPP/ZD8DX** continues to improve after his disastrous fall in Ascension Islands. Despite a back broken in four places, Dave is in good spirits, and greatly appreciates all the notes and QSLs wishing him well. He has moved to the Kessler Institute, Pleasant Valley Way, West Orange NJ 07052, and friends can write him there. He's regaining feeling and control in his arms and legs, so his prognosis is good.

▪ **A half-price cruise** is being offered by Professional Representatives. The 12-day cruises on the 64-passenger Avalon sails between Durban, South Africa, and Mombasa, Kenya. The ship stops at Bazaruto Island off Mozambique, Mayotte, and Madagascar. Cost of the first person is about $2100; the second person goes free. Address: 1100 East Broadway, Glendale CA 91205, 818-507-1151.

▪ **Caucasus Mountains** are the site of a joint Soviet-American "Friendship DXpedition," to Soviet Georgia, in July, 1992. Interested American operators should contact Frank Smith AA7FM, c/o Consulate of Finland, 9744 West Bell Road, Sun City AZ 85351, phone 602-876-2718.

▪ The **Annual Northwest DX Convention** will be held July 26-28, at the Richmond Inn, Richmond, British Columbia (next to the Vancouver BC airport). Registration, including the banquet and breakfast, is US$45 (Canada$50) to the host British Columbia DX Club, Box 3048, Blaine WA 98230. (Canadian address: 12467 53rd Ave., Surrey BC V3X 3B6.) Specify salmon or prime rib for the banquet. Make your room reservations directly with the hotel: 604-273-7878; mention the convention.

▪ The **Top Band Newsletter** has published its second issue. For a copy, send a self-addressed envelope and US$1 or two IRCs to Don Field G3XTT, 105 Shiplake Bottom, Peppard Common, Henley-on-Thames RG9 5HJ, England.

▪ **QSL Notes:** All USA Penguin Island **ZS9Z/1** direct cards have been mailed. If you don't get your card in a few weeks, try again to OH2BH. (There is no stateside manager for this operation.) QSL the **ZS9Z** Walvis Bay operation to Chris Burger ZS6BCR, Box 4485, Pretoria 0001, Republic of South Africa. QSL the brief **TI9JJP** Cocos Island operation to Cecilia Artiñano TI2AOC, P.O.Box 529, Centro Colon 1007, San Jose, Costa Rica. Donations would be appreciated. Gabriele Graeter DL2BCH is now sending out **7O1AA** QSL cards. Send SAE and US$2 or two IRCs to her at Bachstr. 8, D-2907 Grosenkneten, Germany. QSL **VP5R** via WB9HRO, not via AA4NC. QSL the WPX CW call of **ZY2KXI** to Carlos H. Dell'aquila PY2KXI, Box 582, SJ Campos/SP 12201, Brazil.

Information on How to Collect DX QSL

This 24-page, English-language booklet on collecting DX QSL cards, written by Mr. Hiromichi Fukuda JA1IFB, discloses the very essence of his efforts for collecting confirmed QSL cards.

The booklet contains several important hints on collecting DX QSL cards, including international postage from foreign countries to Japan, numbers of IRCs, US$1, guide to world currencies, SASEs, QTHs of QSL managers, time required to receive QSL cards with SASE, and more.

Cost is US$8, including air mail postage, from Mr. Kukuda, Nishi Mita Danchi 3-1-301, Mita 3-2, Tama-ku, Kawasaki, Kanagawa 214, Japan.

B • A • N • D • P • A • S • S

*Key to Bandpass: Callsign, frequency, UTC, day of the month, state. * = long path. P = packet.*
All "portable" calls listed with country of operation first, regardless of format used on the air.

S	M	T	W	T	F	S
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

RTTY

7X2DS	14087	2215	27	IA
EA6ZP	14087	2135	1	OH
EA8BCJ	14087	0440	2	OH
FM5DN	14083	0430	2	OH
IT9DWO	14088	2130	1	OH
SNØJP	14087	2130	1	OH
	Polish Special Event			
UF6FJ	14086	2122	27	FL
UH9YWA	14085	0123	24	FL
VP5JM	14085	0430	2	OH

160 Meters

VK1BRU	1832	1152	31	WA
VK4YB	1833	1154	28	WA
VK6IN	1832	1158	31	WA

80 Meters

TU2MA	3501	0045	22	IA

75 Meters

CT1UP	3794	0113	28	IL
FG5FC	3791	0310	26	PA

40 Meters

7P8EG	7060	0345	27	MN
D2ACA	7001	0135	2	MN
JT5AB	7007	1412	3	OR
PJ2/ PAØVDV	7004	1032	1	IL
TL8FD	7002	0405	1	OR
UA2FGP	7010	0210	28	IA
V63BN	7003	1215	28	OR

30 Meters

KG4DD	10103	0359	3	CT
KH6CF	10102	1028	29	WV
PZ1DV	10106	0125	6	CT
SVØDV/9	10104	0215	4	CT
YN/ SMØOIG	10107	1128	29	AZ

20 Meter CW

3B8CF	14034	0300	28	DE
3B8FG	14015	0027	3	AL
3B8FG *	14020	1208	3	MN
3C1EA	14020	0605	24	UT
3D2AG	14014	1132	4	AL
	Fiji			
3DAØBK	14018	1415	2	OR
4K1A	14024	1201	6	MN
	Antarctica			
4K1B	14003	1135	27	MN
	South Shetlands			
4S7EF	14028	1325	27	CA
4S7EF	14028	2335	2	CT
4S7EK	14029	0008	3	DE
4S7WP	14016	2243	23	OH
4S7WP *	14008	1151	6	MN
8R1J	14018	0018	3	AL
9J2SZ *	14013	1348	2	OR
9V1JY	14031	1225	22	IA
9V1WW	14009	1400	24	CA
BV2A	14023	1102	1	IL
BZ4SAA	14020	1345	24	CA
C21NI	14015	1030	7	VA
D2ACA	14026	0415	5	CA
EA8BUG	14061	0614	29	UT
FH5EJ *	14011	1320	22	TX
FO4NS	14014	0919	29	WV
FR5DD	14022	1126	4	AL
FT4WC *	14021	1222	6	MN
HZ1AB	14011	1308	27	NH
JY9SR	14003	0135	3	DE
P29DK	14026	1345	26	CA
PJ2/ PAØVDV	14025	0233	3	OH
PZ1DY	14008	0201	1	IL
RC2CR	14037	0355	30	ID
SVØDV/9	14029	0102	4	MN
SVØHS	14025	0035	3	AL
TL8FD	14025	2330	3	DE
TL8WD	14022	0040	1	MD
TU2MA	14033	1820	2	MN
UC2LT	14012	2258	30	NH
UH9YWA	14031	0210	30	OR
UI8AG	14009	1350	24	CA
UJ8JI	14004	1218	30	NH
UO5GR	14031	0259	31	IL
V85FC	14020	1455	2	UT
VKØXA	14009	1530	25	CA
VK9NS	14019	1217	5	MN
VU2LX	14009	1213	3	IL
VU2NI	14018	1200	27	NH
VU3JAM	14002	1245	2	OR
YN/ SMØOIG	14014	1450	24	CA
YN1CC	14009	1333	3	OH
Z21HS	14018	2200	7	VA
ZD8WD	14015	0027	4	AL

20 Meter SSB

4K2BCA	14156	0250	31	IL
9V1XQ	14186	1050	1	IL
9V1YQ	14175	1053	1	IL
9V1YQ	14228	1510	27	CA
AP2JZB	14243	0048	2	MA
C53FJ	14243	2255	30	NH
CE9GEW	14300	2100	27	PA
CN8NS	14215	0125	29	DE
FR5DX	14184	1430	2	OR
H44AP	14178	1240	24	IA
H44KA	14179	1059	2	WV
KC6XX	14190	1730	2	OR
P29DX	14187	1211	1	IL
P29PA	14212	1107	2	WV
T3ØDP	14224	1329	23	MD
TJ1GG	14224	2324	25	FL
TL8FD	14256	0320	1	OR
UH8EA	14193	0219	1	WV
V63ST	14197	1126	2	WV
V73AX	14185	1158	26	MD
V85BA	14162	1430	4	CA
VQ9CQ *	14179	1240	22	IA
VQ9DT *	14278	1132	6	MN
YI1BGD	14219	0034	27	MD
Z21GC	14181	0440	27	DE

17 Meter CW

FM5WD	18071	1225	22	NH
HC5AI	18088	0107	29	MD
JY9SR	18077	2338	1	MD
PZ1DV	18074	0035	5	CT
T77C	18071	1946	27	AZ
ZD8WD	18078	2050	3	MN
ZP6XDW	18072	0237	3	CT

17 Meter SSB

D44BS	18117	2324	27	MD

15 Meter CW

4U6ITU	21033	1544	18	NY
8R1J	21015	1935	27	CA
9X5HB	21040	1455	31	CT
9X5HG	21010	0150	24	IA
9X5HG	21009	1233	4	OH
BZ4SAA	21027	2325	24	IA
D2ACA	21026	0028	3	AL
HKØNAF	21020	2240	31	ID
HKØPPY	21018	2220	24	CA
TL8FD	21016	2005	24	TX
TL8MB	21010	1925	24	TX
UM8QB	21020	1751	2	NH
YC9VG *	21009	1235	4	OH
YN/ SMØOIG	21013	1720	30	TX
YN1CC	21009	1332	3	OH
YS1DRF	21012	0304	29	OH
ZD8WD	21029	1939	31	OH
ZP5XUN	21026	0230	5	CT

15 Meter SSB

5T5/ N5JRC	21416	1627	26	FL
7Q7RM	21337	1758	26	MD
8R1RBF	21245	2157	27	FL
9L3BM	21230	1106	1	FL
9U5BZP	21279	2015	27	IA
BV2BT	21251	1554	22	MD
CEØDFL	21290	0234	27	MA
	Easter Island			
D2ACA	21275	2325	1	NH
HKØOEP	21345	2331	21	IL
S79KMB	21335	1957	2	IL
S92LB	21221	2110	27	IA
SV5TS	21255	1425	27	MA
SV5TS	21310	2205	30	TX
TU2XB	21223	2048	27	MD
VQ9AY	21291	1839	31	NB
ZD8XX	21267	2128	1	IL

10 Meter CW

5Z4FO	28014	1600	23	NH
Z21BL	28031	1544	26	WV

10 Meter SSB

3B8FQ	28491	1319	26	FL
5NØRJM	28440	1230	8	NJ
5T5HH	28473	1850	8	NJ
5V7RF	28445	1250	27	FL
C53GB	28470	1740	26	DE
D68JM	28332	1706	28	FL
EL/ KC4WCV	28462	1325	8	NJ
TU2XZ	28440	1040	8	NJ
V51JM	28440	1325	8	NJ
YJ8RN	28463	0003	2	FL
ZD8XX	28480	1320	8	NJ

6 Meters

VE7SKA	50135	1923	3	CA

Islands On The Air

▪ **Cabrera Island** (EU-004): **ED6EIC** will be operated by the Les Bacores DX club July 6-7; QSL EA4KK.

▪ **Outer Hebrides** (EU-010) **GMØKDZ/p** will be active July 17-27, CW only on 7020, 10120, 14020, and 21020 kHz.

▪ **Grosa Island** (EU-093) **ED5IGE** will be active July 27-28, by the Les Bacores DX club; QSL EA4KK.

▪ **Wolin Island** (EU-132) **SP5PB/1** will be active June 15-16, on the IOTA frequencies (14260, 21260, and 28460 kHz) and 30 kHz up on CW.

▪ **Fidalgo Island** (NA-065) **W7FR/FI** will be on June 21-23, 80-10 meters. Before and after ARRL Field Day, they'll be 30 kHz up on CW, and on 14230, 21305, and 28495 kHz. QSL Box 224, Mercer Island WA 98040.

▪ **Noirmoutier Island** (EU-064) will be active June 21-23, all bands, CW only, by F6GIN, F6GNP and FD1NWK.

▪ **Shiant Island** (EU-112) **GS6UW/p** will be aired by Martin G3ZAY June 22-23, weather permitting.

▪ **Summer Island** (EU-092) Martin will also put **GS6UW/p** on again June 27-28.

▪ **New IOTA Directory**: The new 50-page IOTA directory, which includes an up-dated list of IOTA islands, and the revised IOTA rules, is available for US$12 or 18 IRCs from IOTA Director Roger Banister G3KMA, La Quinta, Mimbridge, Chobham, Woking GU24 8AR, England. [This copy of the Directory is **not** available from The DX Bulletin at this time.]

Copyright The DX Bulletin. The DX Bulletin (ISSN 0279-8077) is published 50 times per year at P.O. Box 50, Fulton CA 95439 USA. Telephone (707) 523-1001; Fax: (707) 523-1001. CompuServe 75755,737. One-year subscription rates are $32 Second Class Mail, $42 First Class Mail (including Canada and Mexico) and US$55 Foreign Airmail. Second Class postage paid at Santa Rosa CA. POSTMASTER: Send address changes to above address.

The DX Bulletin
P.O. Box 50
Fulton, CA 95439
U.S.A.

FIRST CLASS MAIL

First Class
U.S. Postage Paid
Santa Rosa, CA
Permit No. 550

Issue 592- June 14, 1991

Current and Future DXpeditions

(Changes and hot info in **boldface**.)

DXCC Country	Prefix	Callsign	Dates	Issue
Afghanistan	**YA**	**YAØAS**	**July 12-29?**	**I592**
Angola	**D2**	**D2ACA**	**Now-June 16**	**I591**
Aland Island	**OHØ**	**LAØEW/FW**	**Now-June 16**	**I590**
Aruba	**P4**	**P4ØZ**	**July 10-23**	**I592**
Ascension	ZD8	ZD8VJ	Jan. 14-June	I568
Bahama Islands	**C6**	**C6AFQ**	**July 1-16**	**I592**
Banaba	T33	T33JH	May-June?	I584
Burundi	**9U**	**9U5BZD**	**to June 28**	**I592**
Cayman Islands	**ZF**	**ZF2AH/JT**	**June 28-July 12**	**I591**
		ZF2QJ/8	**June 29-July 3**	**I591**
		ZF2JI	**July 13-14**	**I592**
Central African Rep.		**TL8FD**	**Now-August**	**I590**
Jan Mayen	JX	JX3EX	Now-Nov.	I588
Madagascar	**5R**	**5R8AL**	**June 10-24**	**I590**
Market Reef	**OJØ**	**OH2AP/**	**June 7-15**	**I591**
Netherland Antilles		**PJ/PAØVDV**	**to June 16**	**I587**
Oblast 054	**UI-G**	**UW4HM/HR**	**June 9-16**	**I590**
Oblast 084		**RE9W/RA9SB**	**June 20-30**	**I591**
Ogasawara		**JD1/JA1SGV, JJ1KZI**	**June 13-15**	**I592**
Rotuma	**3D**	**3D2AG**	**July 1-21**	**I592**
St. Vincent	**J8/**	**VP9KF/GG**	**June 13-20**	**I591**
Sardinia	**ISØ/**	**DL6RAI**	**to mid-June**	**I591**
Southern Sudan	STØ	STØDX	Now-one year	I573
South Shetlands		4K1ADQ	Now	I583
United Nations Geneva		**4U1ITU**	**Now-June 28**	**I592**
Vanuatu	**YJ**	**YJØNX**	**June 12-19**	**I590**
Vietman	**XV**	**XV2A**	**Now?-June 28**	**I592**
Western Kiribati	**T3Ø**	**T3ØJH**	**Now-June**	**I584**
Western Samoa	5W	5W1GY	June	I584

Operating Events and DX Gatherings

Dates	Event	Reference:
June 15-16	All Asian CW test	CQ
	Spanish RTTY Contest	I591
	SMIRK QSO Party	
June 22-23	ARRL Field Day	QST
July 11	Total Eclipse Stations	I592

Resident Amateurs on Regularly

DXCC Country	Callsign	Freq.	UTC
▪ **Angola**	D2ACA	21026	0100Z
▪ **Antarctica**	4K1A	14020±	1200Z
▪ **Ascension Island**	ZD8WD	21030	1930Z
▪ **Brunei**	V85FC	14015±	1500Z
▪ **Burundi**	9U5BZP	21280	2000Z
▪ **Central African Reb.**	TL8MB	21010	1930Z
▪ **Central African Reb.**	TL8FD	21018±	2000Z
▪ **Central African Reb.**	TL8FD	14020±	2100Z
▪ **Crozet**	FT4WD	14020	12-1400Z
▪ **Easter Island**	CEØDFL	21290	0230Z
▪ **Mauritius**	3B8FG	14020	1200Z
▪ **Paraguay**	ZP6XDW	18072	0030Z
▪ **Reunion Island**	FR5DD	14023	1130Z
▪ **Rwanda**	9X5HG	21010	1200Z
▪ **Singapore**	9V1JY	14020±	123-14Z
▪ **South Shetlands**	4K1B	14003	1130-14Z
▪ **Sri Lanka**	4S7EF	14028	2330Z
▪ **Sri Lanka**	4S7WP	20M CW	23, 1200Z

Contributors

This Issue of The DX Bulletin would not have been possible without the invaluable assistance of the following: KH6BZF, SESC, AA4NC, AB8K, DXNS, G3XTT, GØCLP, Japan DX News, KØCVD, K1HDO, K1RH, K1VWL, K2AJY, K2OLG, K2PEQ, K4IQJ, K6IR, K7UOT, K8CH, K8OQL, K9EC, K9UE, KA7T, KC7V, KD7SO, KG6AR, KH6IJ, KITN, KM9J, KN4FY, KT7H, LNDX, N2GLH, N4XLF, N5AHS, N5BBO, N5MHZ, N8AGU, N9LAG, NØAX, NV8N, NW3Y, NY5L, OK-DXpress, TI2JJP, UBØQZ, VE1RJ, W0RXL, W1BFT, W1CNU, W3FG, W4ZYT, W6UQF, W6WKE, W7AWA, WA4NST, WA6AUE, WB8YJF, WB8ZRL, WD9GGY, and WO6R. Many thanks! -ed.

N7RO-DX QSL SERVICE

DX CARDS FORWARDED TO QSL MGRS., DIRECT TO DX STNS., or QSL BUREAUS.

For details, send SASE
Dick Moen, N7RO 2935 Plymouth Dr.
Bellingham, Wash. 98225